

An Inaugural Dissertation

on

Dropsy in the Cellular Membrane

by

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Anasarca.

By this is meant a pathological Collection of water & serum fluid in the cellular texture of the body. It usually commences with swelling of the feet and ankles, appearing at the close of the day, which for some times disappears in the morning. The tense of the skin is soft and inelastic, and when pressed upon with the finger the indentation remaining for some time, the skin becoming much paler than usual. Ascending gradually upwards, the swelling encompasses the thighs, trunk and face. When it has become thus general the viscera are affected in a similar way, producing difficulty of respiration by effusion into the cellular texture of the lungs. The bowels in this disease are uniformly constipated, the skin dry and sometimes hot, the pulse febrile, small, and corded, and there is in almost every case great thirst, the urine small in quantity, and usually deposits a reddish sediment.

To these symptoms speedily succeed typhus, heaviness & a slow fever. The serum now becomes deposed through the skin or raises it in blisters. If relief is not speedily obtained from these symptoms, the system soon sinks under hectic fever.

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With respect to the pathology of this disease much Controversy has
 existed, and indeed the only point which at present seems fully
 established is that it arises from the destruction of the balance which
 naturally exists between exhalation and absorption - There is in
 perfect health a continual exhalation of a watery fluid, in the
 various Cavities of the body which serves the purpose of lubrication
 after which and is attained, it is constantly renewed by the Absorbents
 Lymphical effusions, therefore, it becomes evident, must arise, either
 from an excess of excretion, or from a decay of the power of
 absorption - As our belief in the one or the other must materially
 influence our practice, It would be a very desirable thing
 for this point to be settled - The European Writers believe that
 it depends, altogether upon debility and relaxation of the System
 & consequently place Confidence principally in Tonic Medicines,
 but their want of success is a sufficient refutation of their
 opinion - The Punctations ^{of this Country}, perhaps has gone too far on the other
 hand, their Remedies being almost entirely depletory - I suspect
 In all probability it exists in either state of the System, and we
 should at all times be on the alert to detect the one or the

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Altho, and direct our Remedies, accordingly.

In the treatment of this disease the indications are—

1st To evacuate the water already collected—

2^d To effect a Change in the system which causes the effusion.

And first of the disease as Connected with high action. It is fortunate that the Remedies which reduce arterial action, increase venous absorption. These two Systems acting in an inverse Ratio. The practitioners of this Country proceed on this principle & bleed in this particular species of the disease. but it must be used with discretion. and to justify this remedy, the pulse should be hard, tense, and Corded, and the blood when drawn exhibit the signs of high inflammation— with other usual signs of inflammation— Emetics from their great efficacy in promoting absorption, might be supposed well suited to this disease. but they have now given way to purgatives, and have resorted to scrubs to clear the Stomach of its offending Contents—

Purgatives, in this disease, are beneficial not only as increasing the discharge of water, but also as one of our best means of overcoming high arterial action, & relieving Constipation.

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The question next arises, how frequently is their repetition demanded? It was the practice of Sydenham to prescribe them daily until, the debilitated state of the patient should forbid this use. This must be esteemed generally a Contraindication for it is only by their frequent repetition that we can expect much permanent benefit. In the selection of the appropriate purgative, some discernment is necessary.

The drastic purgatives, by many have much used, particularly the *Aster* emetics, with a view to their hydragogue powers - but in the inflammatory stage I hold them as emetics - here much benefit may be expected from the saline purgatives, particularly the *Super. Tart. Sulph.* in Combination with *Zalac.* given in doses of $\frac{1}{2}$ or $\frac{1}{3}$ of the former with X or XV grains of the latter repeated sufficiently frequent to keep up a continual Diarrhoea - By this remedy, prescribed as above directed, the disease has frequently yielded in a few days - The above remedies, although they frequently fail of curing the disease, generally produce a sufficient reduction of excitement - Our next Remedy should be directed

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to the Lymphatic system. Of all the Diuretics the one best
 suited to the particular stage of the disease I am now consid-
 ering the simple Tart. Potash is best suited. This has long had the
 Confidence of Practitioners, and every day's experience I believe
 tends to confirm the Confidence placed in it. Its operation as
 a Diuretic is much influenced by the quantity of water with which
 it is given. Given without much drink it seldom fails to pass
 off by Stool. The Vegetable and Mineral Alkalies with
 the same view have by some been extolled & by others condemned.

With respect to their mode of operation some difference
 of Opinion exists. Cullen believed their diuretic power depend
 upon their meeting with an acid in the Stomach forming an acetate.
 Were this true the Acetate of Potash would be preferable
 and decidedly more uniform and active in its operation
 as a Diuretic, which I believe is contrary to the experience
 of Practitioners generally. The Cases, in which the Alkalies are
 beneficial, are when there is much debility in the organs of
 digestion, as frequently happens in habitual drunkards. And
 in those Cases attended with great acidity of the Stomach.

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which produces very disagreeing effects — I should not omit
 here to mention a fact which I believe originated with
 Sir John Pringle, that by combining the Alkalies with a
 Tonic we greatly increase their power. Thus estivated they
 not only act as a diuretic, but impart tone to the system
 generally — The next remedy I shall speak of is the Aet.
 Potash — As a Diuretic it is inferior to most articles of the
 Class but its great efficacy arises from the power it has over
 the Arterial system & to Dropsy attended with high arterial
 action it is eminently adapted — The great objection to its use
 is that it cannot be given in sufficient doses & continued for
 any length of time without producing considerable distress of
 Stomach & Nausea &c. — this objection we are told by the Dropsy
 of the practice may be overcome by administering the medicine
 in large quantities of water — As a substitute the dulcified
 Spirit of Nitric may be used — this has not the Confidence of
 Practitioners generally, which proceeds in all probability from
 their prescribing it in too small doses — instead of 40 or 50
 drops it should be given in doses of 1/2 repeated as often

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Of the mild Native Vegetable diuretics, I shall only mention one. *Viz.* the Common Parsley - this possesses very considerable diuretic properties, & we have ^{learned} by Doct. Chapman that he succeeded in curing a case with this remedy, after all others had failed, as this article can be obtained without cost this fact should be recollected particularly in poor practice.

The following formula, which we should not suppose, was discovered accidentally, by Doct.^r Chapman & Webster to possess very powerful diuretic properties. *Viz.*

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Dule. *offic.* Mist. ℥ij

℞. Vin. Ant. - ℥ss.

With the above remark it was my intention to have dismissed ^{rather} the Vegetable diuretics, but the Parsley-remedy, claims some consideration, it is I believe rising in reputation both in this Country & in Europe - It is given in infusion or in extract -

The chronic Stage of the disease most demands our attention - Here when Constipation is present, the drastic purgatives

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although-inadmissible in the inflammable Stage become necessary
 The purgatives here demanded are Calomel with Gamboge-
 also the Colchicum Autumnale-Scammony, Euterium &c.
 Notwithstanding what has been said in opposition to their use.
 Owing to the very great Torpor of the Alimentary Canal they
 are demanded, and are of great utility. life irritating purgatives
 proving of no avail - The following formula has been found
 of great utility in the practice of the Army house in the Stage
 of the disease (Viz)

℞ Euterium ʒ gr. } One Sixteenth to be given in a small
 Gamboge ʒ 4 } quantity of water every hour until
 ℞ Sol. ʒ ʒ ʒ ʒ } Copious watery evacuations are produced.

The next article of which I shall speak is the Stage
 of the disease is Digitalis - This Article maintains a very con-
 siderable reputation in this disease - by some it is extolled above
 all other Remedies, while others condemn it as wholly inefficacious,

This difference of opinion proceeds in all probability from
 their prescribing in different States of the System - As a general
 rule I think it will never prove beneficial, so long as the System

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I come now to speak of one of the most important, and certain of our diuretics. viz. the Spirit, there is no form of Dropsy in which it is not useful. It is usually given in Combination with Calomel, in the proportion of 2 grs of the former with one of the latter, two or three times a day.

Should in the progress of the disease a Cachectic and depressed Condition of the system arise, the more Stimulating articles are demanded. In such a case the Cantharides may prove beneficial from their known power of producing Urinary. They may be thought of doubtful efficacy, but its only in exalted States of the system that they have this effect and in the particular State of the system now under Consideration they prove a powerful and efficacious Diuretic. It is given in tincture in doses of from 20 to 100 drops repeated, pro re nata. Under similar circumstances the Spirit of a Turpentine might be supposed useful, I do not know that any trials, sufficient to establish its efficacy have been made.

It is here that the Polygala Senega may be used

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From stimulating and diaphoretic properties, and also from its febrile and perspiring influence on every part of the system (more especially the Lymphatics), I should suppose it preferable to all other remedies but such I believe is not the estimation in which it is generally held.

Diaphoretics are also occasionally resorted to ⁱⁿ this disease. They have been employed both in this Country and in Europe with sufficient success to warrant their occasional use. One case of this disease ^{is} ~~is~~ ^{ing} speedily and effectually cured by the liberal use of Dover's powder is mentioned Doct^r. Chapman in his Therapeutics, as occurring in his own practice.

Various modes for producing diaphoresis by external applications have been advised, none of which I shall mention, as I believe ^{them} less efficacious than combinations of Opium & Colomet given internally.

When this disease is kept up by visceral disease one would think of withholding the use of mercury & here as previously mentioned it may be beneficial Combined with squills & also with Digitalis.

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To those Cases of Dropsy attended with diminished absorption, Mercury is likewise admirably suited. I should under such circumstances, not be overlooked. But in the Common forms of Dropsy, it will not in any way promote the Cure and may do injury.

The Local means usually resorted to in Cases of oedema in Cases of an ~~excessive~~ distention are incisions, & punctures, & Blister.

To the use of these remedies particularly to the latter, considerable objections exist. Gangrene and mortification has been known to follow particularly Blister.

Less objections exist as to the use of punctures, great Care should be taken not to wound parts much beneath the Skin, from inattention to this Circumstance, suppurative inflammation, and all the Consequences, so much to be dreaded from the use of Blister, has resulted. Much benefit may be derived from the use of the Roller, it proves beneficial by giving support to the weakened & relaxed Vessels.

To prevent the recurrence of anasarca like may be sent to the Roller as above, it should be made of flannel

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The Cold bath, has been recommended, but I think ^{it} generally
of doubtful efficacy, and may frequently prove injurious.

The most effectual plan is the exhibition of Tonics of which
the Bark and Chelidates are perhaps preferable. Exercise
vigorously employed should not be overlooked - with respect
to the diet it should ^{be} nourishing and at the same time easy
of digestion - Should the disease still show a strong
disposition to return we should produce a total change
in the system by the judicious administration of Omeum
pounded merely with a view to its alterative effects.

Notes
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